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| | | | |
|------|----|--------|---|
| NEWS | 1 | | Web Page for STN Seminar Schedule - N. America |
| NEWS | 2 | AUG 10 | Time limit for inactive STN sessions doubles to 40 minutes |
| NEWS | 3 | AUG 18 | COMPENDEX indexing changed for the Corporate Source (CS) field |
| NEWS | 4 | AUG 24 | ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced |
| NEWS | 5 | AUG 24 | CA/CAplus enhanced with legal status information for U.S. patents |
| NEWS | 6 | SEP 09 | 50 Millionth Unique Chemical Substance Recorded in CAS REGISTRY |
| NEWS | 7 | SEP 11 | WPIDS, WPINDEX, and WPIX now include Japanese FTERM thesaurus |
| NEWS | 8 | OCT 21 | Derwent World Patents Index Coverage of Indian and Taiwanese Content Expanded |
| NEWS | 9 | OCT 21 | Derwent World Patents Index enhanced with human translated claims for Chinese Applications and Utility Models |
| NEWS | 10 | NOV 23 | Addition of SCAN format to selected STN databases |
| NEWS | 11 | NOV 23 | Annual Reload of IFI Databases |
| NEWS | 12 | DEC 01 | FRFULL Content and Search Enhancements |
| NEWS | 13 | DEC 01 | DGENE, USGENE, and PCTGEN: new percent identity feature for sorting BLAST answer sets |
| NEWS | 14 | DEC 02 | Derwent World Patent Index: Japanese FI-TERM thesaurus added |
| NEWS | 15 | DEC 02 | PCTGEN enhanced with patent family and legal status display data from INPADOCDB |
| NEWS | 16 | DEC 02 | USGENE: Enhanced coverage of bibliographic and sequence information |
| NEWS | 17 | DEC 21 | New Indicator Identifies Multiple Basic Patent Records Containing Equivalent Chemical Indexing in CA/CAplus |
| NEWS | 18 | JAN 12 | Match STN Content and Features to Your Information Needs, Quickly and Conveniently |
| NEWS | 19 | JAN 25 | Annual Reload of MEDLINE database |
| NEWS | 20 | FEB 16 | STN Express Maintenance Release, Version 8.4.2, Is Now Available for Download |
| NEWS | 21 | FEB 16 | Derwent World Patents Index (DWPI) Revises Indexing of Author Abstracts |
| NEWS | 22 | FEB 16 | New FASTA Display Formats Added to USGENE and PCTGEN |
| NEWS | 23 | FEB 16 | INPADOCDB and INPAFAMDB Enriched with New Content and Features |
| NEWS | 24 | FEB 16 | INSPEC Adding Its Own IPC codes and Author's E-mail |

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,
AND CURRENT DISCOVER FILE IS DATED 15 JANUARY 2010

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10/540,993

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DICTIONARY FILE UPDATES: 15 MAR 2010 HIGHEST RN 1210111-73-1

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=> Uploading C:\Program Files\Stnexp\Queries\10540993disubstitution.str

1.1 STRUCTURE UPLOADED

=> d 11
L1 HAS NO ANSWERS
L1 STP

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> S 11
SAMPLE SEARCH INITIATED 10:51:49 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED 491 TO ITERATE

100.0% PROCESSED 491 ITERATIONS 14 ANSWERS
SEARCH TIME: 00:00:01

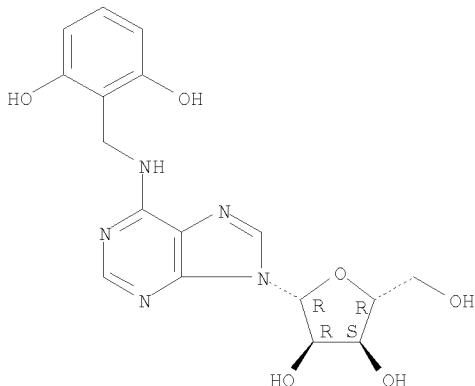
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTED ITERATIONS: 8491 TO 11149
PROJECTED ANSWERS: 56 TO 500

1.3 14 SEA SSS SAM 1.1

=> d scan

L2 14 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Adenosine, N-[(2,6-dihydroxyphenyl)methyl]- (9CI)
MF C₁₇ H₁₉ N₅ O₆

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):s 11 full
'S L1 FULL' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 11 full
FULL SEARCH INITIATED 10:52:07 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 9383 TO ITERATE

100.0% PROCESSED 9383 ITERATIONS 249 ANSWERS
SEARCH TIME: 00.00.01

L3 249 SEA SSS FUL L1

| => file caplus | COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---------------------|----------------------|------------------|---------------|
| FULL ESTIMATED COST | | 191.54 | 191.76 |

FILE 'CAPLUS' ENTERED AT 10:52:11 ON 17 MAR 2010
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 17 Mar 2010 VOL 152 ISS 12
FILE LAST UPDATED: 16 Mar 2010 (20100316/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

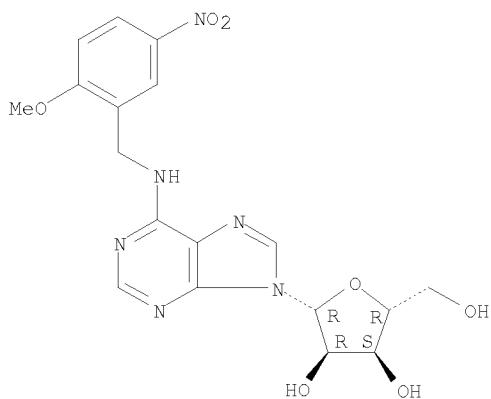
This file contains CAS Registry Numbers for easy and accurate

substance identification.

=> s 13
 L4 48 L3
 => d bib abs hitstr 40-48

L4 ANSWER 40 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1975:557754 CAPLUS
 DN 83:157754
 OREF 83:24691a,24694a
 TI Synthesis and biological activities of some N6-(nitro- and -aminobenzyl)adenosines
 AU Dutta, Shib P.; Tritsch, George L.; Cox, Clifford; Chheda, Girish B.
 CS Gen. Clin. Res. Cent., Roswell Park Mem. Inst., Buffalo, NY, USA
 SO Journal of Medicinal Chemistry (1975), 18(8), 780-3
 CODEN: JMCMAR; ISSN: 0022-2623
 DT Journal
 LA English
 GI For diagram(s), see printed CA Issue.
 AB Of 12 title compds., prepared by direct alkylation of adenosine [58-61-7] by a benzyl bromide derivative to give the N1-derivative followed by rearrangement in base, or nucleophilic displacement of Cl in 6-chloropurine nucleosides with an amine, several were inhibitors of adenosine aminohydrolase [9026-93-1] and equal to or more active than N6-benzyladenosine [4294-16-0] as growth inhibitors of leukemia L1210 cells. The highest affinity for the substrate binding site of the enzyme was shown by N6-p-nitrobenzyladenosine (I) [40297-54-9] and N6-p-nitrobenzyl-2'-deoxyadenosine (II) [56527-33-4], which were also relatively nontoxic. 2-Amino-6-p-nitrobenzylamino-9-(β -D-ribofuranosyl)purine (III) [56527-38-9] and 2-amino-6-p-nitrobenzylaminopurine (IV) [56527-39-0] were better inhibitors of L1210 cells than N6-benzyladenosine.
 IT 40896-43-3P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and biol. activity of)
 RN 40896-43-3 CAPLUS
 CN Adenosine, N-[(2-methoxy-5-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L4 ANSWER 41 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1974:121282 CAPLUS
 DN 80:121282
 OREF 80:19535a,19538a
 TI 2',3',5'-Tri-O-acyl-N6-benzyladenosines
 IN Kampe, Wolfgang; Fauland, Erich; Thiel, Max; Roesch, Egon; Dietmann, Karl
 PA Boehringer Mannheim G.m.b.H.
 SO Ger. Offen., 12 pp.
 CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------|------|----------|-----------------|----------|
| PI | DE 2238923 | A1 | 19740214 | DE 1972-2238923 | 19720808 |
| | CA 1003411 | A1 | 19770111 | CA 1973-177826 | 19730731 |
| | GB 1384518 | A | 19750219 | GB 1973-36489 | 19730801 |
| | AU 7358857 | A | 19750206 | AU 1973-58857 | 19730802 |
| | CH 579587 | A5 | 19760915 | CH 1973-11307 | 19730803 |
| | FR 2195434 | A1 | 19740308 | FR 1973-28648 | 19730806 |
| | ZA 7305331 | A | 19740828 | ZA 1973-5331 | 19730806 |
| | NL 7310870 | A | 19740212 | NL 1973-10870 | 19730807 |
| | AT 7306918 | A | 19750115 | AT 1973-6918 | 19730807 |
| | AT 325784 | B | 19751110 | | |
| | JP 49045095 | A | 19740427 | JP 1973-89161 | 19730808 |

PRAI DE 1972-2238923 A 19720808

GI For diagram(s), see printed CA Issue.

AB Eight acyladenosines I ($R = Ac$, Bz , or $nicotinoyl$, $Rn1 = 2\text{-Me}$, $2,5\text{-Me}2$, $2,4,5\text{-Me}3$, $2,5\text{-MeOCl}$, or $2,5\text{-MeSCl}$) were prepared in 45-85% yield by acylation of I ($R = H$) with $Ac2O$, $BzCl$, or $nicotinoyl$ azide. The acyl derivs. had longer lasting effects on blood vessels and circulation than the starting compds. I ($R = H$).

IT 34349-31-0 34349-36-5 34349-38-7

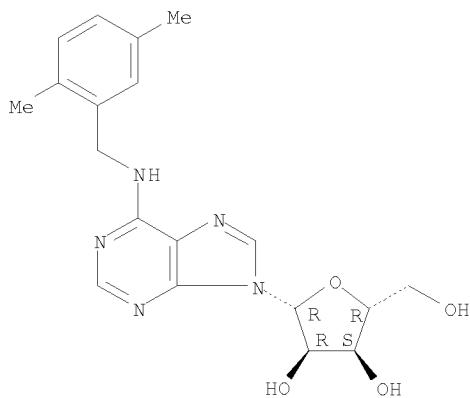
52622-05-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation of)

RN 34349-31-0 CAPLUS

CN Adenosine, N-[$(2,5\text{-dimethylphenyl})\text{methyl}$] - (9CI) (CA INDEX NAME)

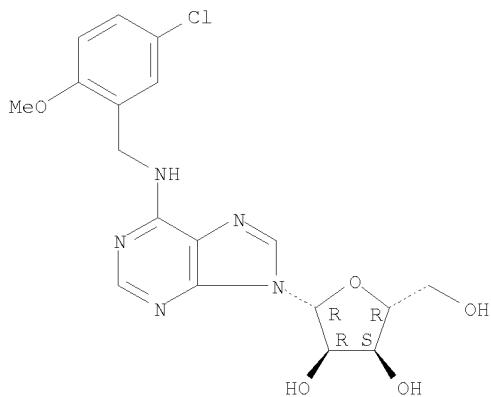
Absolute stereochemistry.



RN 34349-36-5 CAPLUS

CN Adenosine, N-[$(5\text{-chloro-2-methoxyphenyl})\text{methyl}$] - (9CI) (CA INDEX NAME)

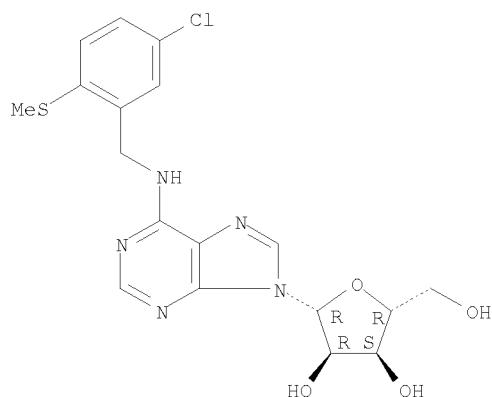
Absolute stereochemistry.



10/540, 993

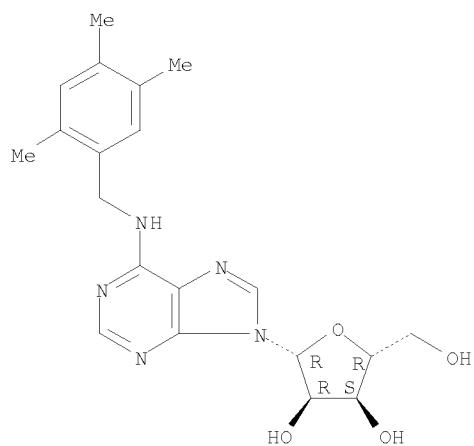
RN 34349-38-7 CAPLUS
CN Adenosine, N-[5-chloro-2-(methylthio)phenyl]methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



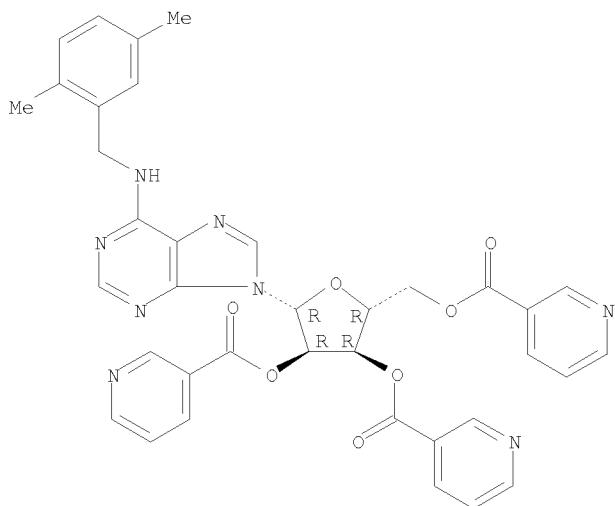
RN 52622-05-6 CAPLUS
CN Adenosine, N-[(2,4,5-trimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



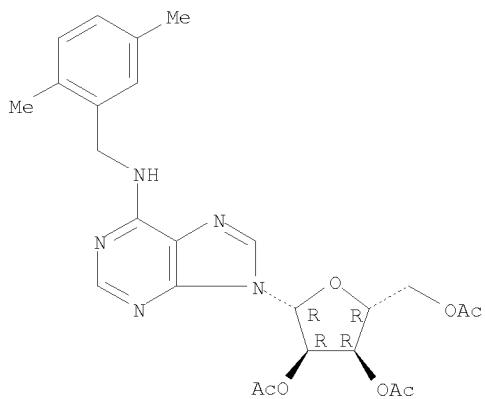
IT 50991-71-4P 52622-01-2P 52622-02-3P
52622-03-4P 52622-04-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 50991-71-4 CAPLUS
CN Adenosine, N-[(2,5-dimethylphenyl)methyl]-,
2',3',5'-tri-3-pyridinecarboxylate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



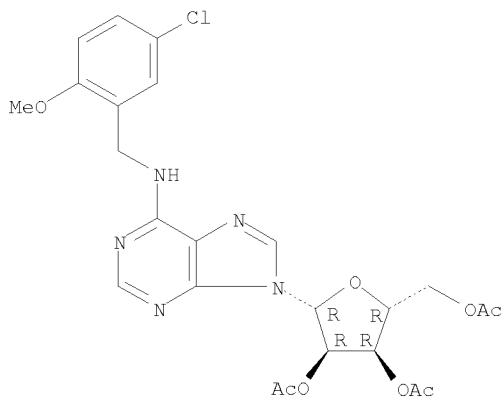
RN 52622-01-2 CAPLUS
CN Adenosine, N-[(2,5-dimethylphenyl)methyl]-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 52622-02-3 CAPLUS
CN Adenosine, N-[(5-chloro-2-methoxyphenyl)methyl]-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

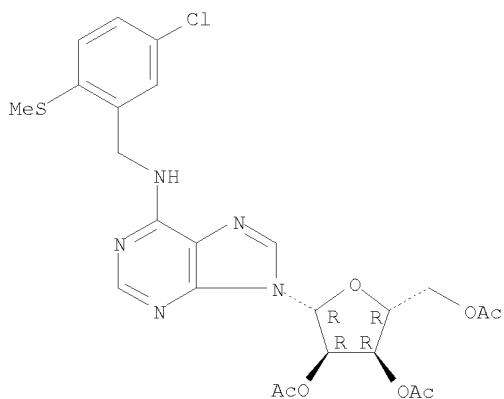
Absolute stereochemistry.



10/540,993

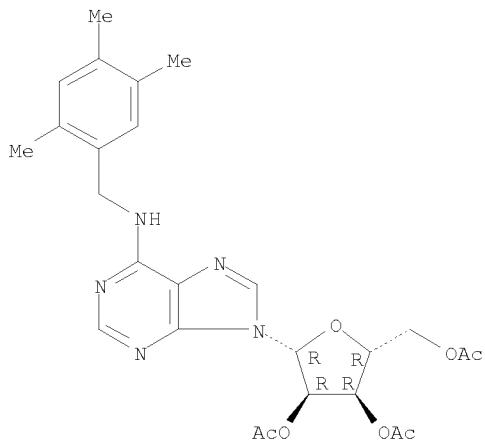
RN 52622-03-4 CAPLUS
CN Adenosine, N-[5-chloro-2-(methylthio)phenyl]methyl-, 2',3',5'-triacetate
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 52622-04-5 CAPLUS
CN Adenosine, N-[(2,4,5-trimethylphenyl)methyl]-, 2',3',5'-triacetate (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L4 ANSWER 42 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN
AN 1974:27453 CAPLUS
DN 80:27453
OREF 80:4536h,4537a
TI 2',3',5'-Tri-O-nicotinoyl-N-(2-methylbenzyl)adenosines
IN Flohr, Hans; Fakhrai, Mohsen
SO Ger. Offen., 8 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

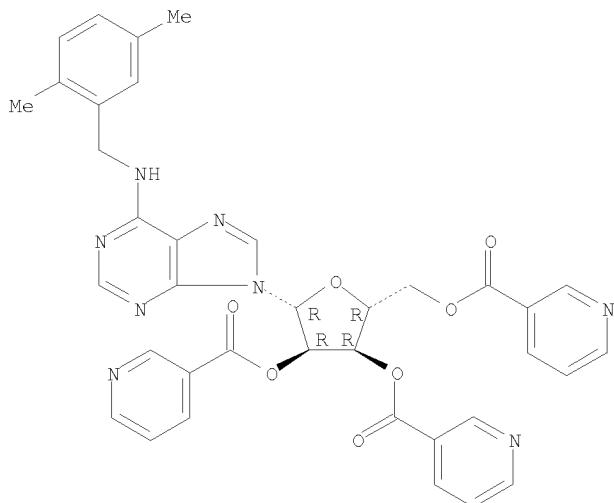
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| PI DE 2218553 | A1 | 19731108 | DE 1972-2218553 | 19720417 |
| DE 2218553 | B2 | 19770714 | | |

PRAI DE 1972-2218553 19720417
GI For diagram(s), see printed CA Issue.
AB The adenosines I (R = H or Me), useful for the treatment of coronary and peripheral blood circulation insufficiency and as antihypertensives and

antisclerotics, were prepared by successive reaction of adenosine with nicotinoyl chloride in pyridine and 5,2-RMeC₆H₃CH₂NH₂ in Me₂CHOH-(Me₂CH)₂NH.

IT 50991-71-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 50991-71-4 CAPLUS
 CN Adenosine, N-[(2,5-dimethylphenyl)methyl]-,
 2',3',5'-tri-3-pyridinecarboxylate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 43 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1973:124846 CAPLUS
 DN 78:124846
 OREF 78:20071a,20074a
 TI N-Benzyladenosine derivatives
 IN Kampe, Wolfgang; Fauland, Erich; Thiel, Max; Juhran, Wolfgang; Stork, Harald

PA Boehringer Mannheim G.m.b.H.

SO Ger. Offen., 20 pp.
 CODEN: GWXXBX

DT Patent
 LA German

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|----------|
| PI | DE 2136624 | A | 19730208 | DE 1971-2136624 | 19710722 |
| | GB 1340643 | A | 19731212 | GB 1972-33537 | 19720618 |
| | US 3845035 | A | 19741029 | US 1972-271098 | 19720712 |
| | ZA 7204891 | A | 19730530 | ZA 1972-4891 | 19720717 |
| | CH 569035 | A5 | 19751114 | CH 1975-10617 | 19720719 |
| | CH 570420 | A5 | 19751215 | CH 1972-10795 | 19720719 |
| | NL 7210023 | A | 19730124 | NL 1972-10023 | 19720720 |
| | CA 979891 | A1 | 19751216 | CA 1972-147625 | 19720720 |
| | SU 539532 | A3 | 19761215 | SU 1972-1812966 | 19720720 |
| | FR 2146493 | A1 | 19730302 | FR 1972-26450 | 19720721 |
| | AT 317446 | B | 19740826 | AT 1972-6288 | 19720721 |
| | AT 790673 | A | 19750415 | AT 1973-7906 | 19720721 |

PRAI DE 1971-2136624 A 19710722

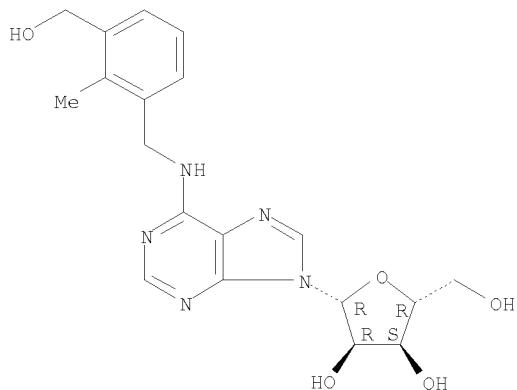
GI For diagram(s), see printed CA Issue.

AB Thirty-three title compds. (I; X = NHCH₂C₆H₅-nRn; R: = Cl, OH NH₂ or Br; Rn = e.g. 2-OH, 3,2-HOMe, 2,5 HOCl, 2,4- HOCl) were prepared by reaction of I (X = Cl) containing free or acetyl group-protected OH-groups with H₂NCH₂C₆H₅-nRn or from the adenosine derivative and ClCH₂C₆H₅nRn. I had circulatory and antilipemic effects.

IT 40896-26-2P 40896-31-9P 40896-32-0P
 40896-39-7P 40896-41-1P 40896-43-3P

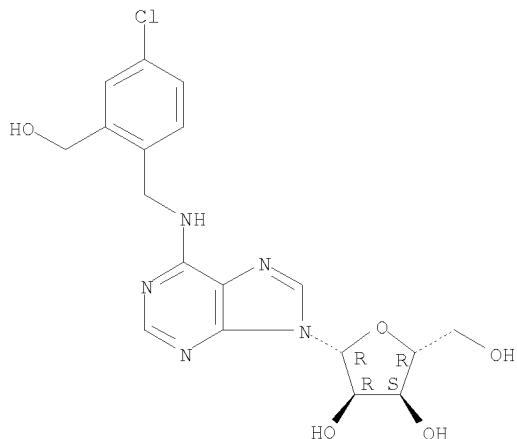
40896-45-5P 40958-94-9P 40958-97-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 40896-26-2 CAPLUS
CN Adenosine, N-[3-(hydroxymethyl)-2-methylphenyl]methyl]- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



RN 40896-31-9 CAPLUS
CN Adenosine, N-[4-chloro-2-(hydroxymethyl)phenyl]methyl]- (9CI) (CA INDEX
NAME)

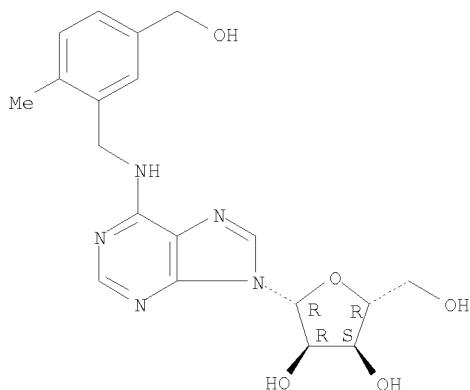
Absolute stereochemistry.



RN 40896-32-0 CAPLUS
CN Adenosine, N-[5-(hydroxymethyl)-2-methylphenyl]methyl]- (9CI) (CA INDEX
NAME)

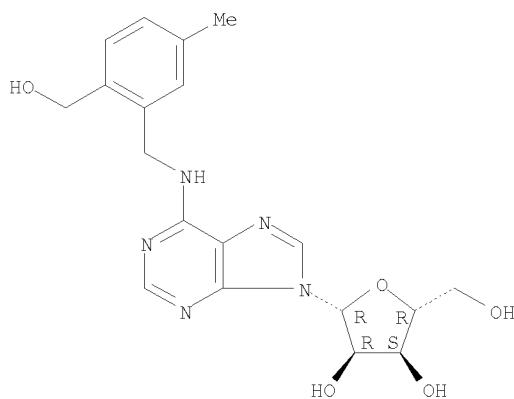
Absolute stereochemistry.

10/540, 993



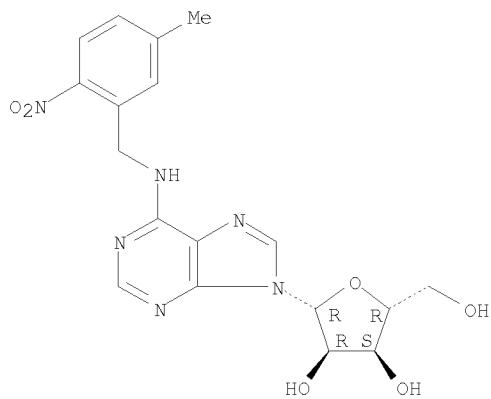
RN 40896-39-7 CAPLUS
CN Adenosine, N-[2-(hydroxymethyl)-5-methylphenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 40896-41-1 CAPLUS
CN Adenosine, N-[5-methyl-2-nitrophenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

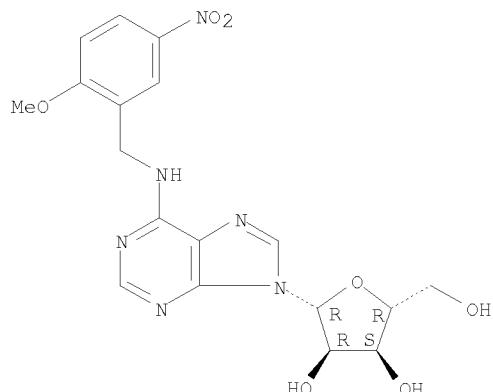


RN 40896-43-3 CAPLUS
CN Adenosine, N-[(2-methoxy-5-nitrophenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

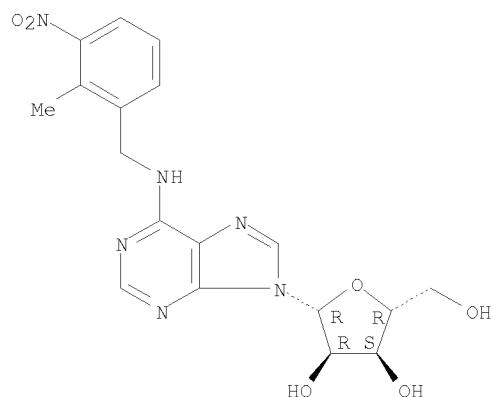
McIntosh

10/540, 993



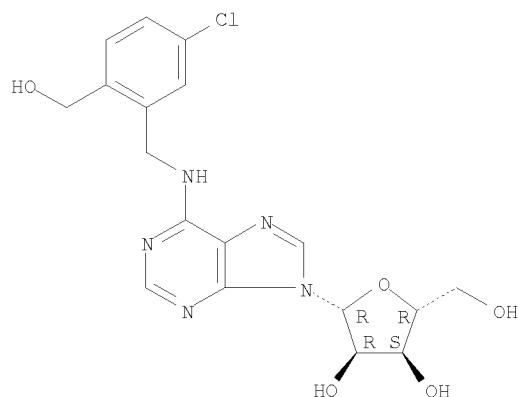
RN 40896-45-5 CAPLUS
CN Adenosine, N-[2-methyl-3-nitrophenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 40958-94-9 CAPLUS
CN Adenosine, N-[5-chloro-2-(hydroxymethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

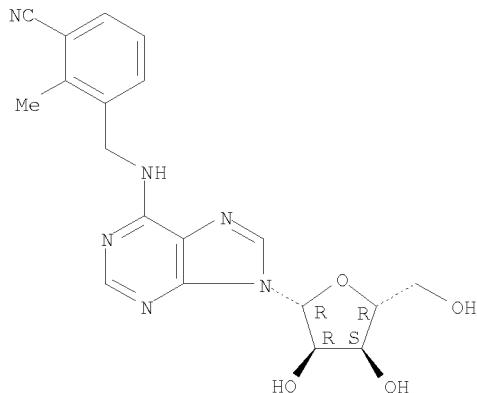
Absolute stereochemistry.



RN 40958-97-2 CAPLUS
CN Adenosine, N-[3-cyano-2-methylphenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

McIntosh

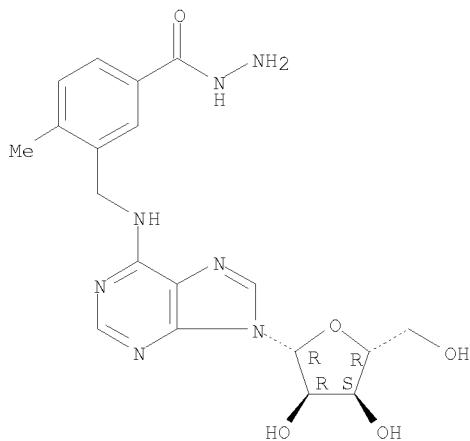


OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L4 ANSWER 44 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1972:502140 CAPLUS
 DN 77:102140
 OREF 77:16847a,16850a
 TI N-[[(Hydrazinocarbonyl)phenyl]alkyl]adenosines
 IN Jahn, Werner; Kampe, Wolfgang; Fauland, Erich; Juhran, Wolfgang; Stork, Harald
 PA Boehringer Mannheim G.m.b.H.
 SO Ger. Offen., 14 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

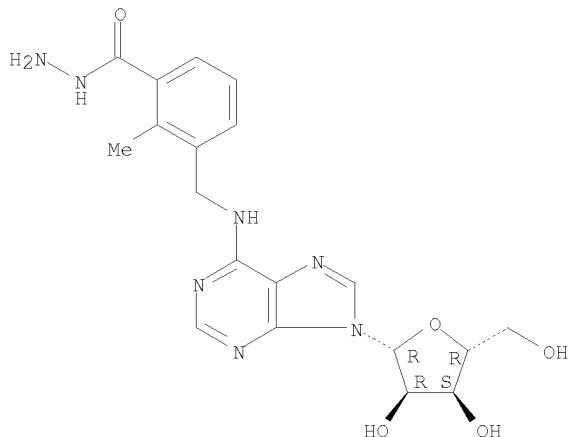
| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|-------------|-------------|-----------------|----------|
| PI | DE 2060189 | A | 19720615 | DE 1970-2060189 | 19701208 |
| | US 3787391 | A | 19740122 | US 1971-201174 | 19711122 |
| | NL 7116564 | A | 19720612 | NL 1971-16564 | 19711202 |
| | GB 1313459 | A | 19730411 | GB 1971-56025 | 19711202 |
| | SU 444368 | A3 | 19740925 | SU 1971-1721738 | 19711202 |
| | AU 7136492 | A | 19730607 | AU 1971-36492 | 19711203 |
| | CH 567045 | A5 | 19750930 | CH 1971-17640 | 19711203 |
| | CH 568330 | A5 | 19751031 | CH 1975-8284 | 19711203 |
| | CH 568331 | A5 | 19751031 | CH 1975-8285 | 19711203 |
| | ZA 7108177 | A | 19720927 | ZA 1971-8177 | 19711207 |
| | HU 163227 | B | 19730728 | HU 1971-B01335 | 19711207 |
| | AT 312172 | B | 19731227 | AT 1971-10533 | 19711207 |
| | AT 318821 | B | 19741125 | AT 1972-9168 | 19711207 |
| | AT 318822 | B | 19741125 | AT 1972-9169 | 19711207 |
| | CA 960656 | A1 | 19750107 | CA 1971-129590 | 19711207 |
| | FR 2117935 | A5 | 19720728 | FR 1971-43996 | 19711208 |
| | FR 2117935 | B1 | 19750314 | | |
| | SU 515454 | A3 | 19760525 | SU 1973-1959114 | 19730824 |
| | SU 576955 | A3 | 19771015 | SU 1973-1959113 | 19730824 |
| PRAI | DE 1970-2060189 | A | 19701208 | | |
| GI | For diagram(s), see printed CA Issue. | | | | |
| AB | Fourteen title compds. (I, 2-, 3-, 4-, or 5-COHNHR1; Q = CH ₂ , CH ₂ CH ₂ , CH ₂ CH ₂ O; R = H, 2-Me, 3-Cl; R1 = H, p-ClC ₆ H ₄ CO, p-MeOC ₆ H ₄ CO, p-HOCH ₂ CH ₂ C ₆ H ₄ CO, o-MeC ₆ H ₄ CO), useful as blood-circulation-active and serum-lipids-lowering agents, were prepared by reaction of tri-O-acetyladenosine with R(R ₁ NHNHC ₆ H ₃ QBr or of adenosine N-[R(EtO ₂ C) ₂ C ₆ H ₃ Q] derivative with N ₂ H ₄ .H ₂ O. | | | | |
| IT | 38790-46-4P | 38790-49-7P | 38790-52-2P | | |
| | 38937-31-4P | | | | |
| | RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of) | | | | |
| RN | 38790-46-4 | CAPLUS | | | |
| CN | Benzoic acid, 4-methyl-3-[(9-β-D-ribofuranosyl-9H-purin-6-y)amino]methyl]-, hydrazide (CA INDEX NAME) | | | | |

Absolute stereochemistry.



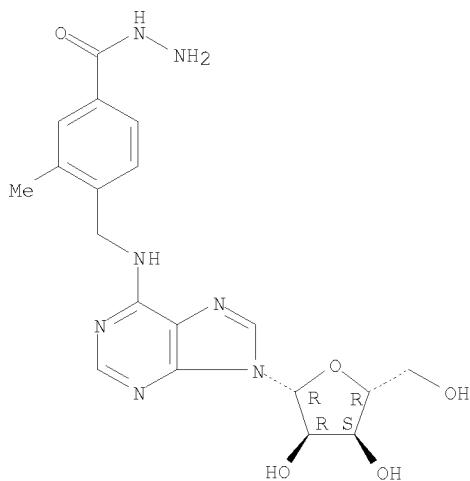
RN 38790-49-7 CAPLUS
CN Benzoic acid, 2-methyl-3-[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl-, hydrazide (CA INDEX NAME)

Absolute stereochemistry.



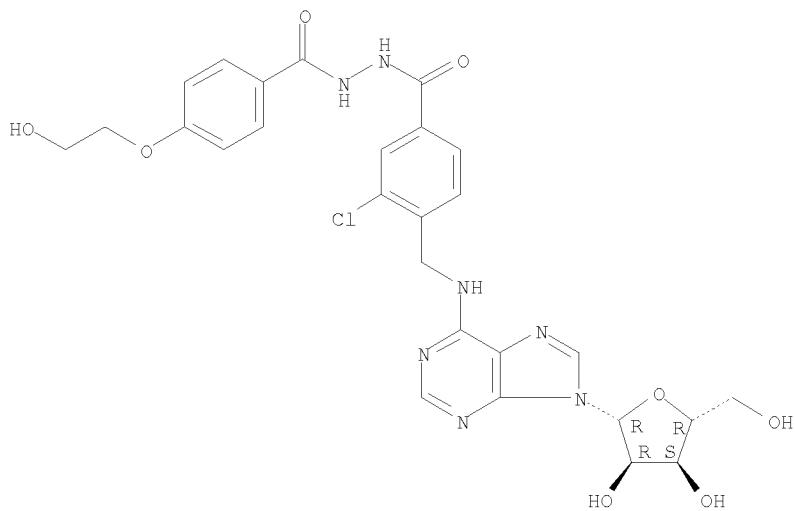
RN 38790-52-2 CAPLUS
CN Benzoic acid, 3-methyl-[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl-, hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 38937-31-4 CAPLUS
 CN Benzoic acid, 3-chloro-4-[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, 2-[4-(2-hydroxyethoxy)benzoyl]hydrazide (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

| | | | | |
|---------|--|---------------------------|-----------------|----------|
| L4 | ANSWER 45 OF 48 CAPLUS | COPYRIGHT 2010 ACS on STN | | |
| AN | 1972:502139 | CAPLUS | | |
| DN | 77:102139 | | | |
| OREF | 77:16847a,16850a | | | |
| TI | N-(Acylbenzyl- and -phenethyl)adenosines | | | |
| IN | Kampe, Wolfgang; Fauland, Erich; Stork, Harald; Juhran, Wolfgang; Dietmann, Karl | | | |
| PA | Boehringer Mannheim G.m.b.H. | | | |
| SO | Ger. Offen., 20 pp. | | | |
| | CODEN: GWXXBX | | | |
| DT | Patent | | | |
| LA | German | | | |
| FAN.CNT | 1 | | | |
| | PATENT NO. | KIND DATE | APPLICATION NO. | DATE |
| PI | DE 2059922 | A 19720615 | DE 1970-2059922 | 19701205 |
| | US 3817981 | A 19740618 | US 1971-199727 | 19711117 |

| | | | | |
|------------|----|----------|-----------------|----------|
| SU 469253 | A3 | 19750430 | SU 1971-1723201 | 19711130 |
| SU 506294 | A3 | 19760305 | SU 1971-1913745 | 19711130 |
| NL 7116563 | A | 19720607 | NL 1971-16563 | 19711202 |
| GB 1313290 | A | 19730411 | GB 1971-56024 | 19711202 |
| CH 567044 | A5 | 19750930 | CH 1971-17633 | 19711202 |
| CH 573445 | A5 | 19760315 | CH 1975-8318 | 19711202 |
| FR 2116517 | A5 | 19720713 | FR 1971-43419 | 19711203 |
| FR 2116517 | B1 | 19750801 | | |
| ZA 7108104 | A | 19720927 | ZA 1971-8104 | 19711203 |
| AU 7136493 | A | 19730607 | AU 1971-36493 | 19711203 |
| HU 163670 | B | 19731027 | HU 1971-B01334 | 19711203 |
| AT 314094 | B | 19740325 | AT 1971-10436 | 19711203 |
| CA 960655 | A1 | 19750107 | CA 1971-129319 | 19711203 |
| AT 323335 | B | 19750710 | AT 1971-323335 | 19711203 |

PRAI DE 1970-2059922 A 19701205

GI For diagram(s), see printed CA Issue.

AB Forty-five title compds. (I, Y = X, 2-R(R1)C6H39CH2)nNH; n = 1,2; R = 3- or 4-carboxy, -alkoxycarbonyl, -carbamoyl, -allylcarbamoyl; R1 = H, Me; R2 = H, Cl, OH) (II), useful as hypolipemic agents with effects on circulation, were prepared by reaction of the corresponding I (Y = CL) (III) with X,2-R(R1)C6H3(CH2)nNH2 and subsequent saponification or amidation. Thus, refluxing III (R2 = H) and 3-EtO2C-C6H4CH2CH2NH2.HCl in EtOH in the presence of Et3N for 3 hr gave 65% II (n = 2, R = 3-EtO2C, R1 = R2 = H), which was heated in EtOH at 120° for 15 hr with NH3 to give 64% II (n = 2, R = 3-H2NCO, R1 = R2 = 5h).

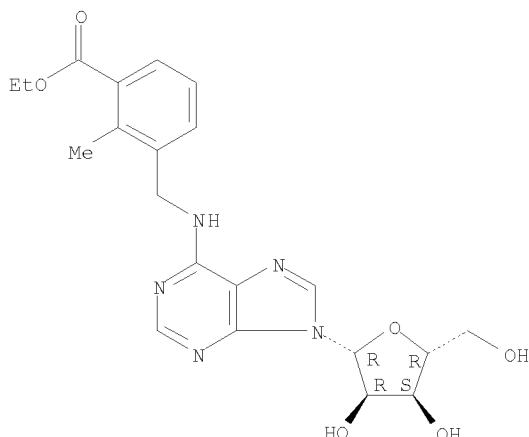
IT 38823-50-6P 38823-56-2P 38823-59-5P
38823-66-4P 38823-69-7P 38823-72-2P
38823-79-9P 38823-81-3P 38823-82-4P
38823-90-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 38823-50-6 CAPLUS

CN Benzoic acid, 2-methyl-3-[[[(9-β-D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, ethyl ester (CA INDEX NAME)

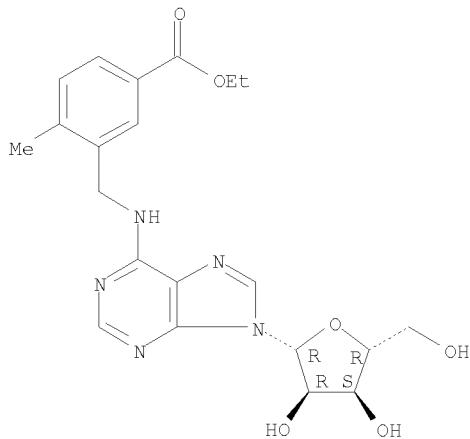
Absolute stereochemistry.



RN 38823-56-2 CAPLUS

CN Benzoic acid, 4-methyl-3-[[[(9-β-D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, ethyl ester (CA INDEX NAME)

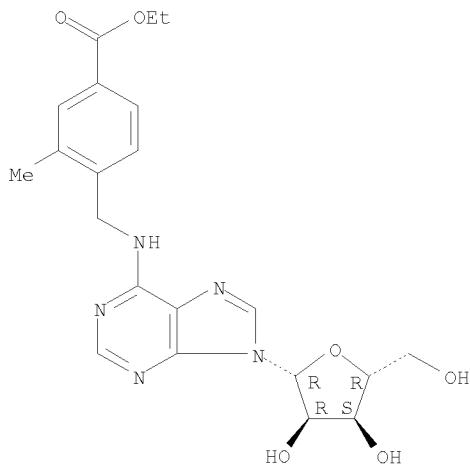
Absolute stereochemistry.



RN 38823-59-5 CAPLUS

CN Benzoic acid, 3-methyl-4-[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]-, ethyl ester (CA INDEX NAME)

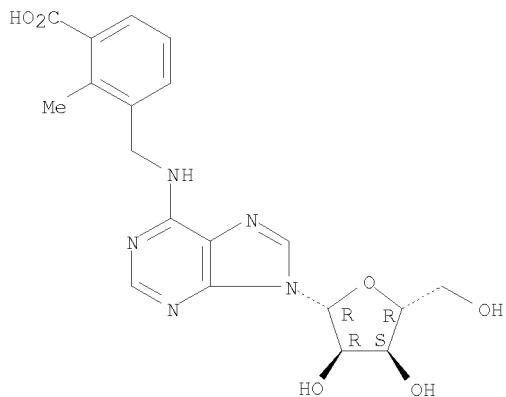
Absolute stereochemistry.



RN 38823-66-4 CAPLUS

CN Benzoic acid, 2-methyl-3-[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]- (CA INDEX NAME)

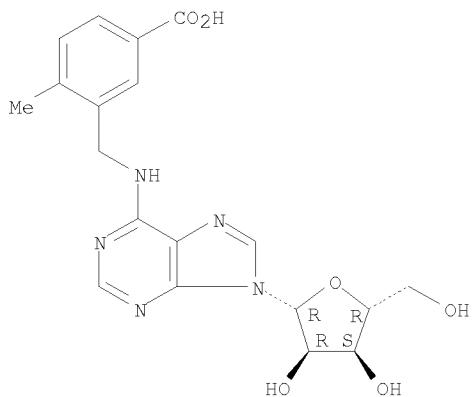
Absolute stereochemistry.



10/540,993

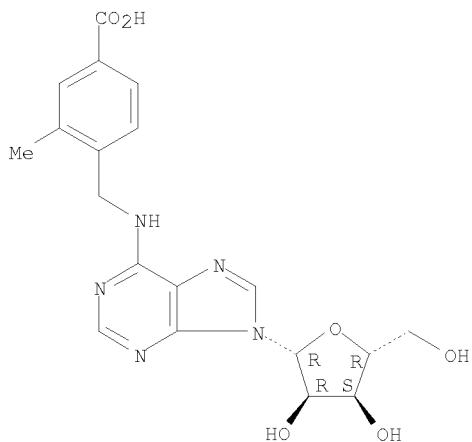
RN 38823-69-7 CAPLUS
CN Benzoic acid, 4-methyl-3-[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



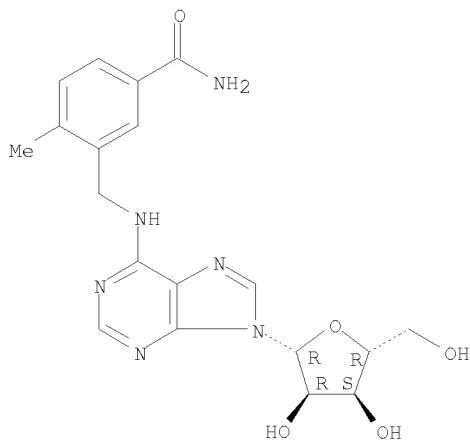
RN 38823-72-2 CAPLUS
CN Benzoic acid, 3-methyl-4-[[(9- β -D-ribofuranosyl-9H-purin-6-yl)amino]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



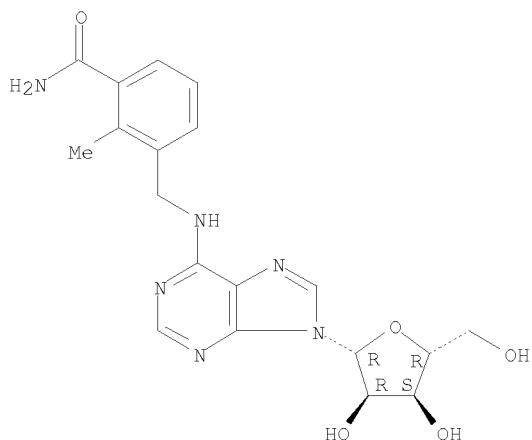
RN 38823-79-9 CAPLUS
CN Adenosine, N-[[5-(aminocarbonyl)-2-methylphenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



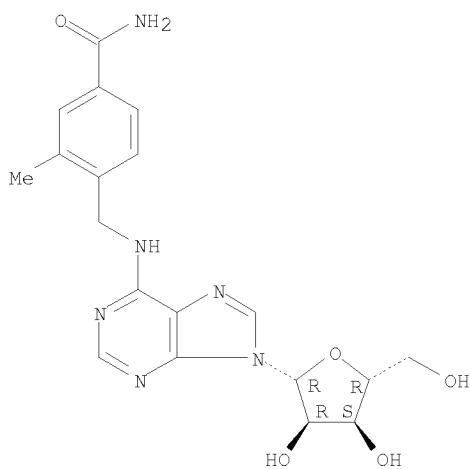
RN 38823-81-3 CAPLUS
CN Adenosine, N-[3-(aminocarbonyl)-2-methylphenyl]methyl- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



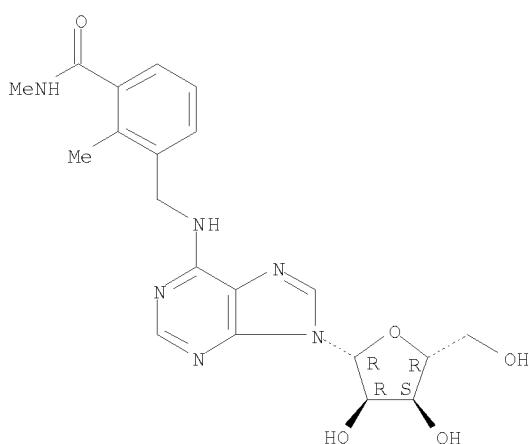
RN 38823-82-4 CAPLUS
CN Adenosine, N-[4-(aminocarbonyl)-2-methylphenyl]methyl- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



RN 38823-90-4 CAPLUS
 CN Adenosine, N-[2-methyl-3-[(methylamino)carbonyl]phenyl]methyl]- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L4 ANSWER 46 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1971:541121 CAPLUS
 DN 75:141121
 OREF 75:22273a,22276a
 TI Coronary dilating N6-benzyladenosines
 IN Kampe, Wolfgang; Fauland, Erich; Thiel, Max; Dietmann, Karl; Juhran, Wolfgang
 PA Boehringer Mannheim G.m.b.H.
 SO Ger. Offen., 10 pp.
 CODEN: GWXXBX

DT Patent
 LA German

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------------|----------|-----------------|-----------------|------|
| PI DE 2007273 | A | 19710826 | DE 1970-2007273 | 19700218 | |
| SU 399134 | A3 | 19730927 | SU 1971-1616102 | 19710129 | |
| US 3781273 | A | 19731225 | US 1971-112424 | 19710203 | |
| NL 7102026 | A | 19710820 | NL 1971-2026 | 19710216 | |
| DK 123357 | B | 19720612 | DK 1971-694 | 19710216 | |
| HU 162739 | B | 19730428 | HU 1971-B01274 | 19710216 | |
| CH 549596 | A | 19740531 | CH 1971-2208 | 19710216 | |

| | | | | |
|-------------|----|----------|-----------------|----------|
| CH 549600 | A | 19740531 | CH 1974-2849 | 19710216 |
| CA 953714 | A1 | 19740827 | CA 1971-105563 | 19710216 |
| ZA 7101030 | A | 19711124 | ZA 1971-1030 | 19710217 |
| FR 2081524 | A5 | 19711203 | FR 1971-5318 | 19710217 |
| FR 2081524 | B1 | 19740927 | | |
| AT 306251 | B | 19730410 | AT 1971-1378 | 19710217 |
| AT 313483 | B | 19740225 | AT 1972-1233 | 19710217 |
| JP 51016440 | B | 19760524 | JP 1971-7691 | 19710218 |
| GB 1279946 | A | 19720628 | GB 1971-1279946 | 19710419 |

PRAI DE 1970-2007273 A 19700218

GI For diagram(s), see printed CA Issue.

AB The title compds. (I, where R = Me, MeS, or MeO, R1 = 5-Me, 5-Cl, 5-MeO, 5-iso-Pr, 5-F, 5-tert-Bu, 3-Me, or 3-Cl) were prepared either by amination of the 6-chloro derivative or by N1-substitution of adenosine followed by alkaline rearrangement. Thus, 9-(2,3,5-tri-O-acetyl- β -D-ribofuranosyl)-6-chloropurine, 2,5-Me₂C₆H₃CH₂NH₂, and Et₃N in iso-PrOH was refluxed 3 hr and the protective Ac groups cleaved by NaOMe to give 61% I (R = Me, R₁ = 5-Me). Similarly prepared were 11 other I.

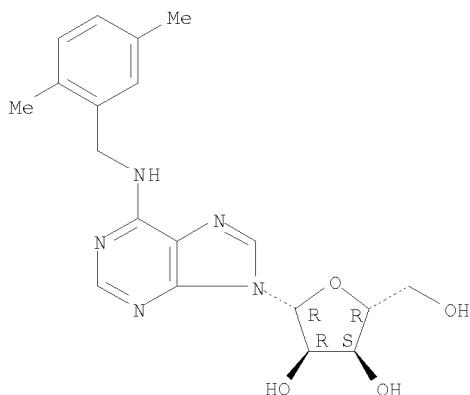
IT 34349-31-0P 34349-32-1P 34349-33-2P
 34349-34-3P 34349-35-4P 34349-36-5P
 34349-37-6P 34349-38-7P 34349-39-8P
 34349-40-1P 34349-41-2P 34422-72-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 34349-31-0 CAPLUS

CN Adenosine, N-[(2,5-dimethylphenyl)methyl]- (8CI) (CA INDEX NAME)

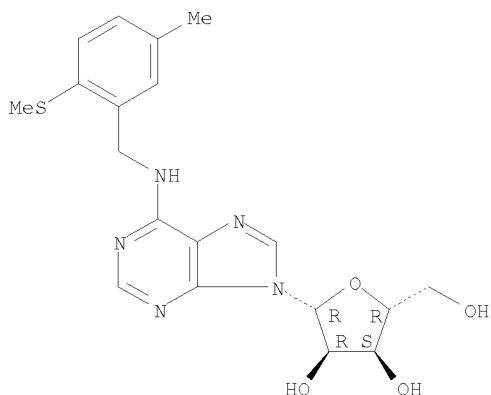
Absolute stereochemistry.



RN 34349-32-1 CAPLUS

CN Adenosine, N-[5-methyl-2-(methylthio)benzyl]- (8CI) (CA INDEX NAME)

Absolute stereochemistry.

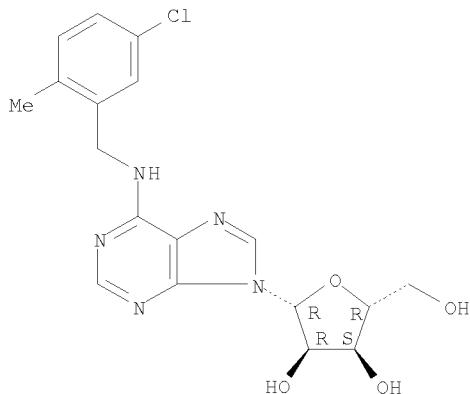


RN 34349-33-2 CAPLUS

10/540,993

CN Adenosine, N-(5-chloro-2-methylbenzyl)- (8CI) (CA INDEX NAME)

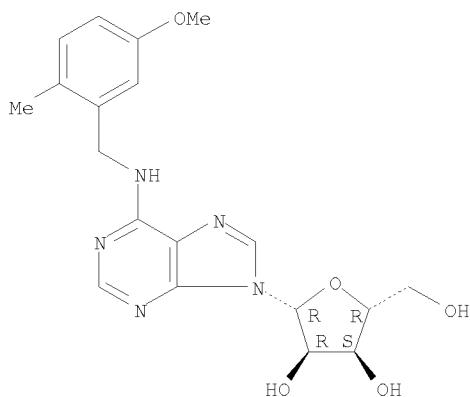
Absolute stereochemistry.



RN 34349-34-3 CAPLUS

CN Adenosine, N-(5-methoxy-2-methylbenzyl)- (8CI) (CA INDEX NAME)

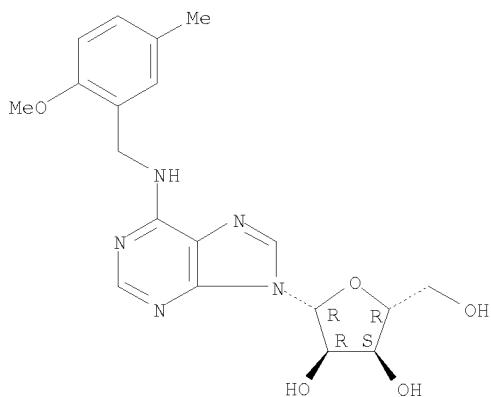
Absolute stereochemistry.



RN 34349-35-4 CAPLUS

CN Adenosine, N-(2-methoxy-5-methylbenzyl)- (8CI) (CA INDEX NAME)

Absolute stereochemistry.



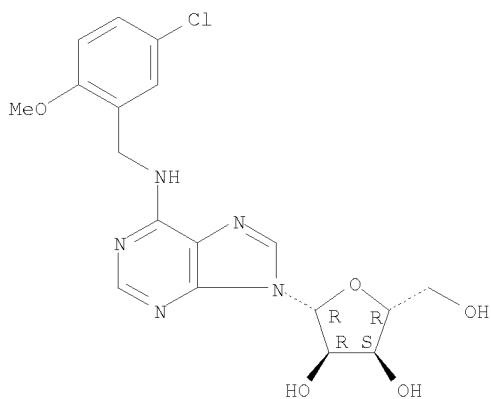
RN 34349-36-5 CAPLUS

CN Adenosine, N-[(5-chloro-2-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

McIntosh

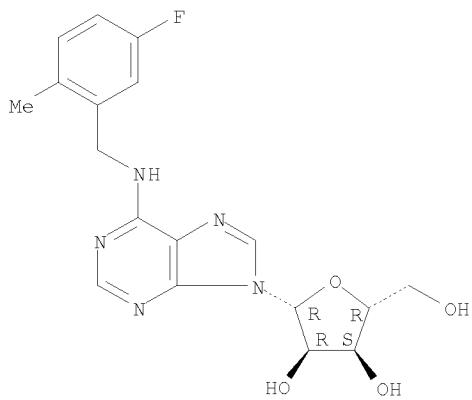
10/540, 993

Absolute stereochemistry.



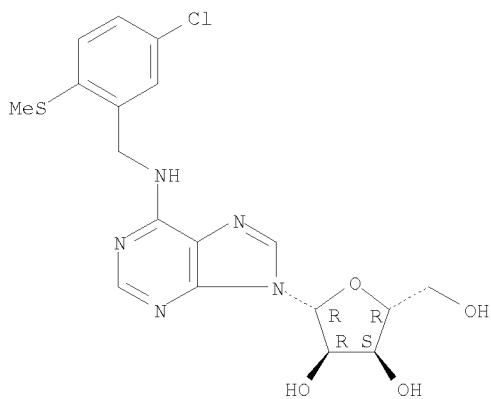
RN 34349-37-6 CAPLUS
CN Adenosine, N-[5-(5-fluoro-2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 34349-38-7 CAPLUS
CN Adenosine, N-[5-chloro-2-(methylthio)phenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

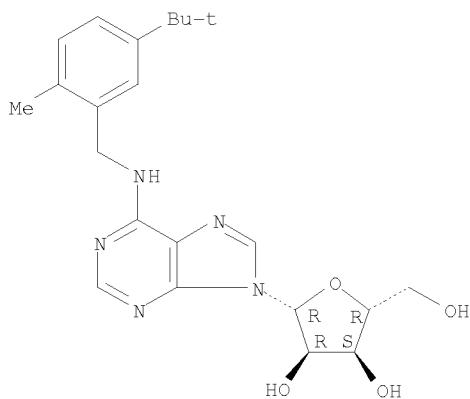


RN 34349-39-8 CAPLUS
CN Adenosine, N-(5-tert-butyl-2-methylbenzyl)- (8CI) (CA INDEX NAME)

McIntosh

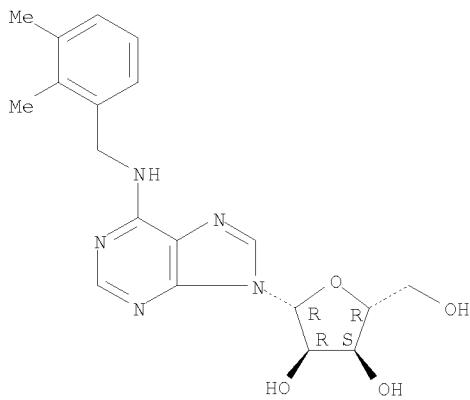
10/540, 993

Absolute stereochemistry.



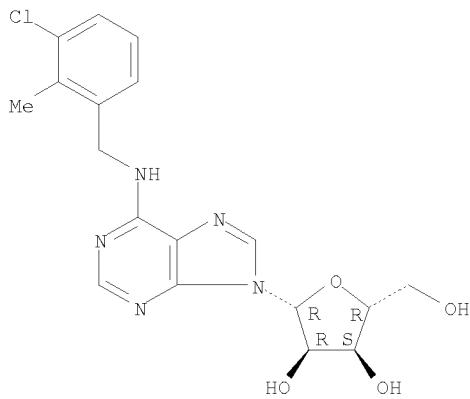
RN 34349-40-1 CAPLUS
CN Adenosine, N-[(2,3-dimethylphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 34349-41-2 CAPLUS
CN Adenosine, N-[(3-chloro-2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

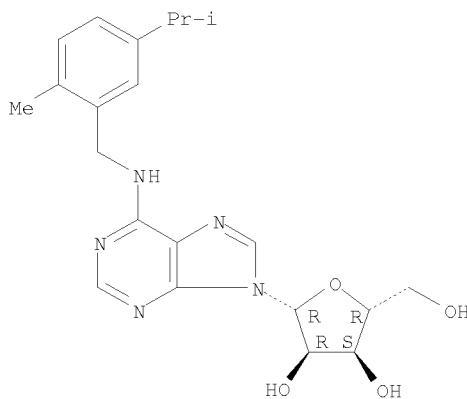
Absolute stereochemistry.



RN 34422-72-5 CAPLUS
CN Adenosine, N-(5-isopropyl-2-methylbenzyl)- (8CI) (CA INDEX NAME)

McIntosh

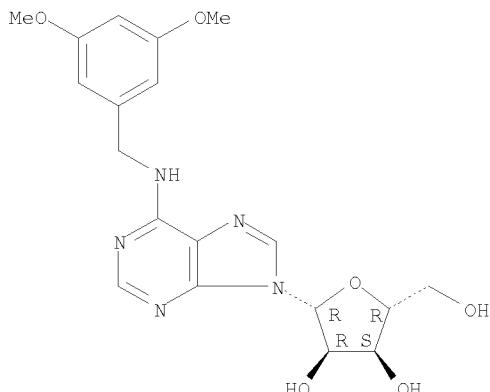
Absolute stereochemistry.



OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L4 ANSWER 47 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1971:86054 CAPLUS
 DN 74:86054
 OREF 74:13963a,13966a
 TI Inhibition of induced thrombocyte aggregation by adenosine and adenosine derivatives. II. Correlation between inhibition of the aggregation and peripheral vasodilatation
 AU Dietmann, Karl; Birkenheier, H.; Schaumann, Wolfgang
 CS Med. Forsch., Firma Boehringer Mannheim G.m.b.H., Mannheim-Waldhof, Fed. Rep. Ger.
 SO Arzneimittel-Forschung (1970), 20(11), 1749-51
 CODEN: ARZNAD; ISSN: 0004-4172
 DT Journal
 LA German
 GI For diagram(s), see printed CA Issue.
 AB The ability of adenosine (I) and 20 adenosine derivs. to produce vasodilation in rabbits was correlated with their ability to antagonize ADP-induced thrombocyte aggregation in vitro. The N6-phenylalkyl substituted derivs., N6-(cis, trans-2-phenylcyclo-pentyl)adenosine and N6-(trans-dl-2-phenylcyclopentyl)adenosine (II), were more active than the aliphatic substituted derivs., 2-chloro-N6-propyl-, 2-chloro-N6-allyl-, and 2-chloro-N6-sec-butyladenosines, as well as the N6-benzyl derivs., 2-chloro-N6-benzyladenosine, 2-amino-N6-(2-chlorobenzyl)adenosine, N6-(o-xylyl)adenosine, N6-(o-trifluoromethylbenzyl)adenosine, and N6-(3,5-dimethoxybenzyl)adenosine. The most active derivative, II, was half as active as adenosine.
 IT 23660-99-3
 RL: BIOL (Biological study)
 (blood platelet aggregation and vasodilation by)
 RN 23660-99-3 CAPLUS
 CN Adenosine, N-[{(3,5-dimethoxyphenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.

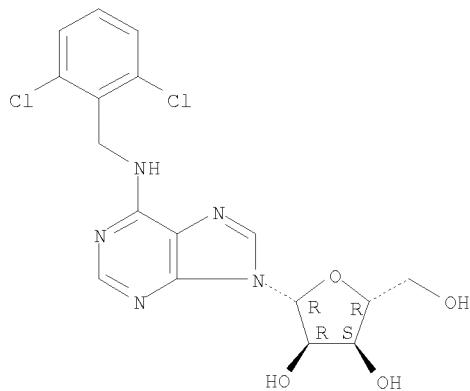


L4 ANSWER 48 OF 48 CAPLUS COPYRIGHT 2010 ACS on STN
 AN 1969:115505 CAPLUS
 DN 70:115505
 OREF 70:21591a,21594a
 TI N6-Aralkyl adenosine derivatives
 IN Thiel, Max; Stach, Kurt; Jahn, Werner; Schaumann, Wolfgang; Dietmann, Karl
 PA Boehringer, C. F., und Soehne G.m.b.H.
 SO S. Africam, 15 pp.
 CODEN: SFXXAB
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|-------------|-------------|-----------------|----------|
| PI | ZA 6707414 | | 19680502 | | |
| | DE 1670171 | | | DE | |
| | FR 1550512 | | | FR | |
| | GB 1145789 | | | GB | |
| | US 3506643 | | 19700414 | US | 19671018 |
| PRAI | DE | | 19661209 | | |
| | DE | | 19670711 | | |
| OS | MARPAT 70:115505 | | | | |
| GI | For diagram(s), see printed CA Issue. | | | | |
| AB | The title compds. (1), where halogen, alkyl, alkoxy, F3C or alkylthio, or two substituents may be H or a methylenedioxy, are prepared from the corresponding D-ribosides and benzylamines, or from the corresponding N'-substituted adenosine derivs. Thus, 8.2 g. tri-O-acetyl-6-chloro-9-β-D-ribosyl-9-H-purine and 7.2 g. 2-ClC ₆ H ₄ CH ₂ NH ₂ in 120 cc. iso-PrOH were refluxed 2 hrs., worked up and the residue dissolved in 100 cc. MeOH, 10 cc. N NaOH solution added and the mixture refluxed 1 hr. to yield 4 g. I (R = 2-Cl), m. 182-3°. The following I were similarly prepared (R and m.p. given): 3,4-Cl ₂ , 182-3°; 4-MeO, 146-7°; 3,4(MeO) ₂ , 135-6°; 3,4,5-(MeO) ₃ , 118-19°; 2,6-Cl ₂ , 207-9°; 4-Cl, 174-5°; 3-Cl, 168-9°; 2-MeO, 147-8°; 2-Me, 157-8°; 3,5-(MeO) ₂ , 191-2°; 2-MeS, 127-8°; 2-F3C, 160-1°; and 3-F3C, 111-12°. To a suspension of 10 g. 2',3'-O-isopropylideneadenosine in 200 cc. MeCN, 10 g. p-BrC ₆ H ₄ Br was added and the mixture refluxed 24 hrs. with stirring. The precipitate which formed was filtered off, dissolved in 150 cc. MeOH and an equal volume 2N NaOH solution was added. The mixture was heated on a steam bath 20 min., extracted with CHCl ₃ , evaporated, and the residue dissolved in 200 cc. HCO ₂ N. Water was added until the mixture became cloudy. The mixture was left standing 1 day at ambient temperature, after which it was evaporated in vacuo, and the residue made weakly alkaline with an aqueous solution of concentrated NH ₃ to yield 5.8 g. I (R = 4-Br), m. 168-9°. I exhibit an effect on blood vessels and circulation. | | | | |
| IT | 23660-95-9P | 23660-99-3P | 23666-23-1P | | |
| | 23666-25-3P | 23666-26-4P | | | |
| | RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) | | | | |
| RN | 23660-95-9 CAPLUS | | | | |
| CN | Adenosine, N-[(2,6-dichlorophenyl)methyl]- (9CI) (CA INDEX NAME) | | | | |

10/540, 993

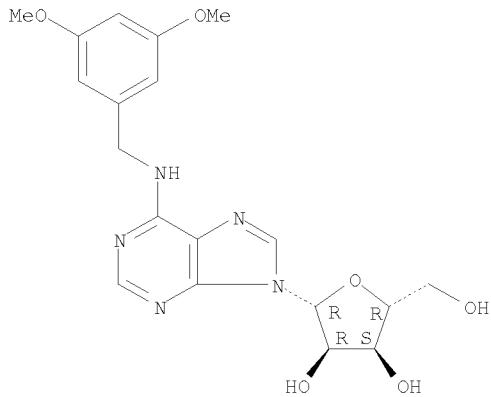
Absolute stereochemistry.



RN 23660-99-3 CAPLUS

CN Adenosine, N-[(3,5-dimethoxyphenyl)methyl]- (CA INDEX NAME)

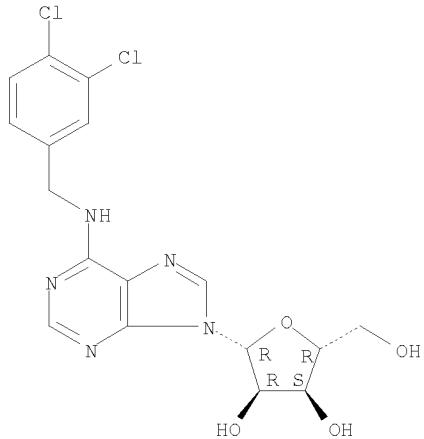
Absolute stereochemistry.



RN 23666-23-1 CAPLUS

CN Adenosine, N-[(3,4-dichlorophenyl)methyl]- (CA INDEX NAME)

Absolute stereochemistry.



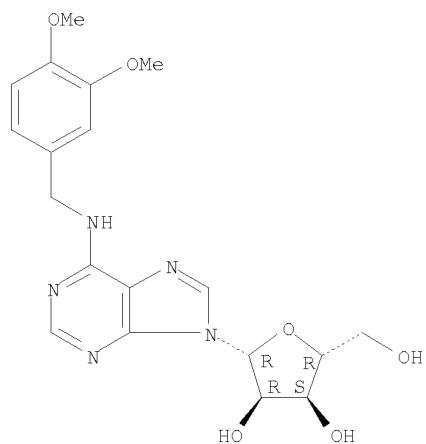
RN 23666-25-3 CAPLUS

CN Adenosine, N-[(3,4-dimethoxyphenyl)methyl]- (CA INDEX NAME)

McIntosh

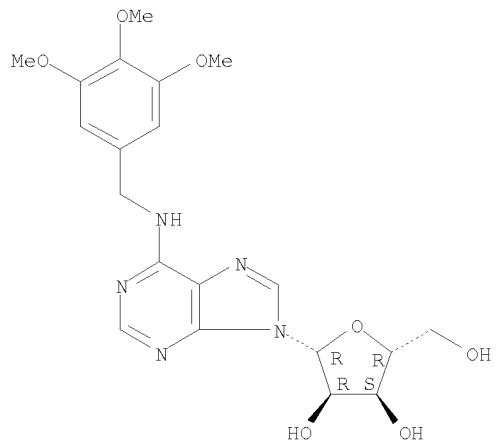
10/540, 993

Absolute stereochemistry.



RN 23666-26-4 CAPLUS
CN Adenosine, N-[(3,4,5-trimethoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)